



MULTI-PIECE RIM



OVERVIEW



- Components / Parts
- Tools and Materials
- Dismounting the Multi-Piece Rim
- Rim Maintenance
- Mounting the Multi-Piece Rim



LEARNING OBJECTIVES



There are no Learning Objectives
Associated with this Period of
Instruction



METHOD AND MEDIA



- Informal Lecture Method
- Power Point
- Student Handout
- Technical Instruction – TI 11270-OI



ADMINISTRATIVE INSTRUCTIONS



- Complete IRF's following the POI





EVALUATION

- There is no Evaluation Over this Period of Instruction.





SAFETY



- IF AT ANYTIME THERE IS A FIRE MAKE YOUR WAY OUT THE BACK DOOR AND GET IN FORMATION BY THE OAK TREES FOR ACCOUNTABILITY AND FURTHER WORD TO BE PASSED.
- IF WE SHOULD HAVE INCLEMENT WEATHER STAY IN THE CLASSROOM AND WAIT FOR FURTHER INSTRUCTIONS.



QUESTIONS?

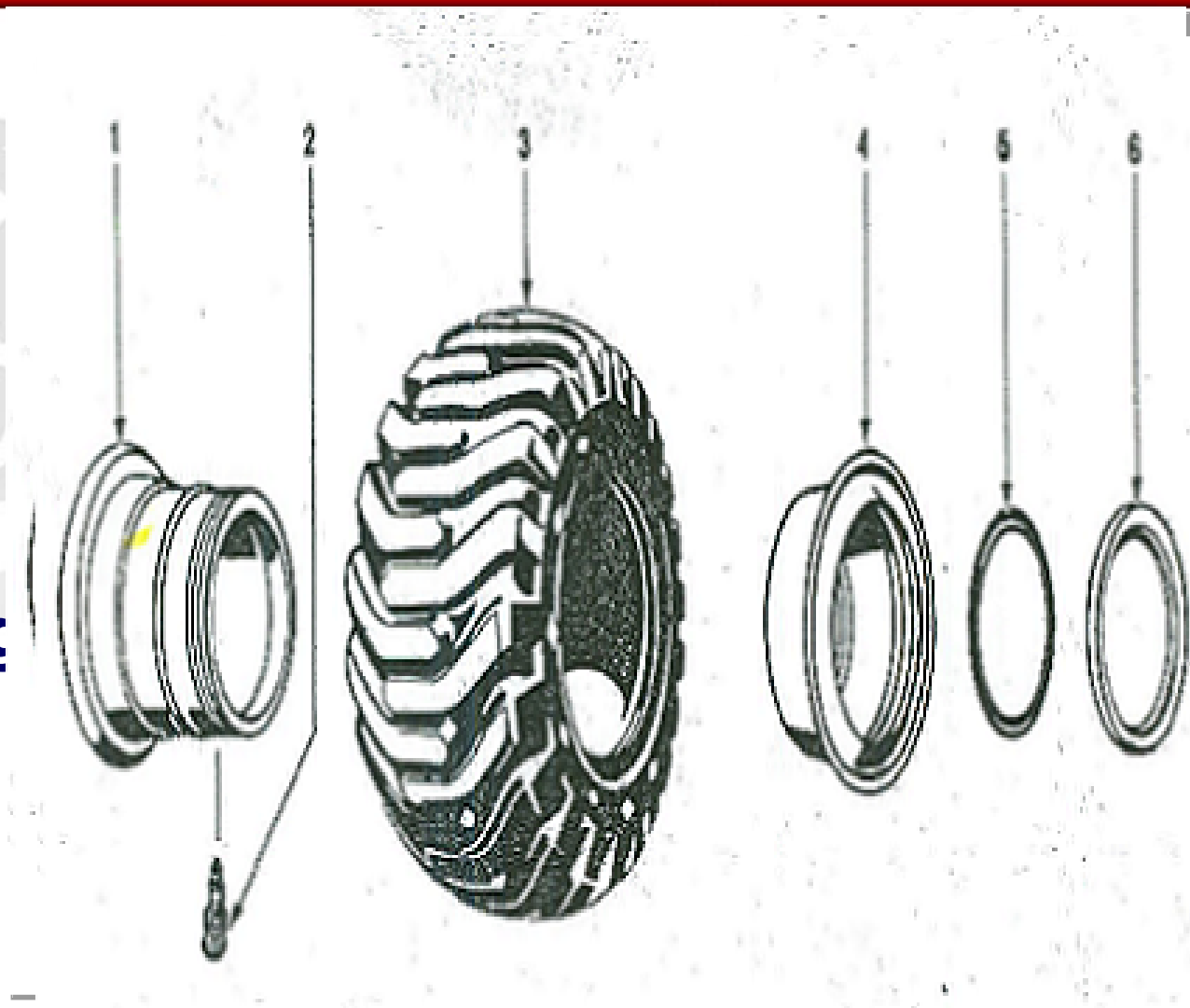


COMPONENTS / PARTS



COMPONENTS / PARTS

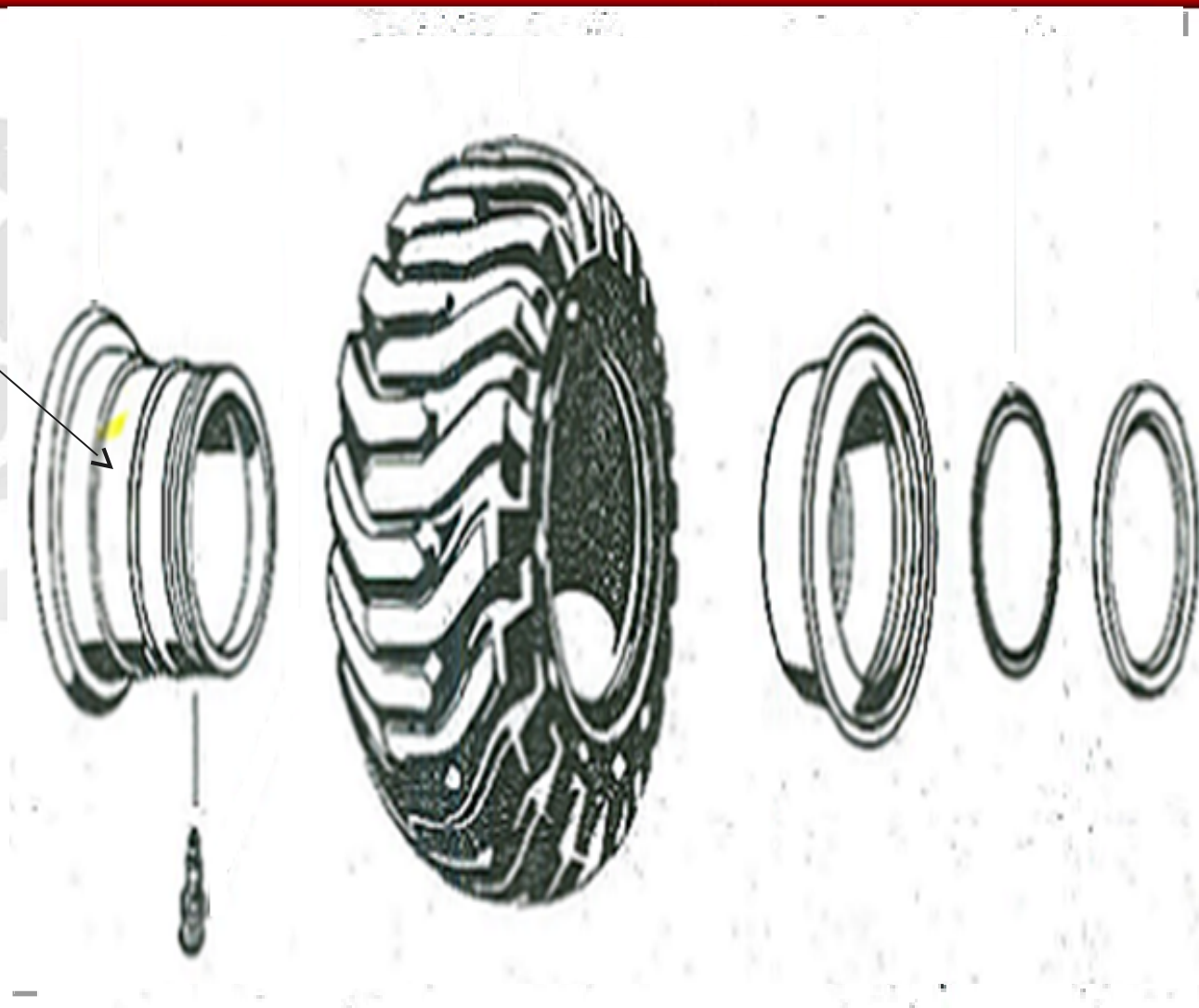
1. Rim
2. Air Valve
3. Tire
4. Split Rim
5. O-Ring
6. Snap Ring





COMPONENTS / PARTS

1. Rim

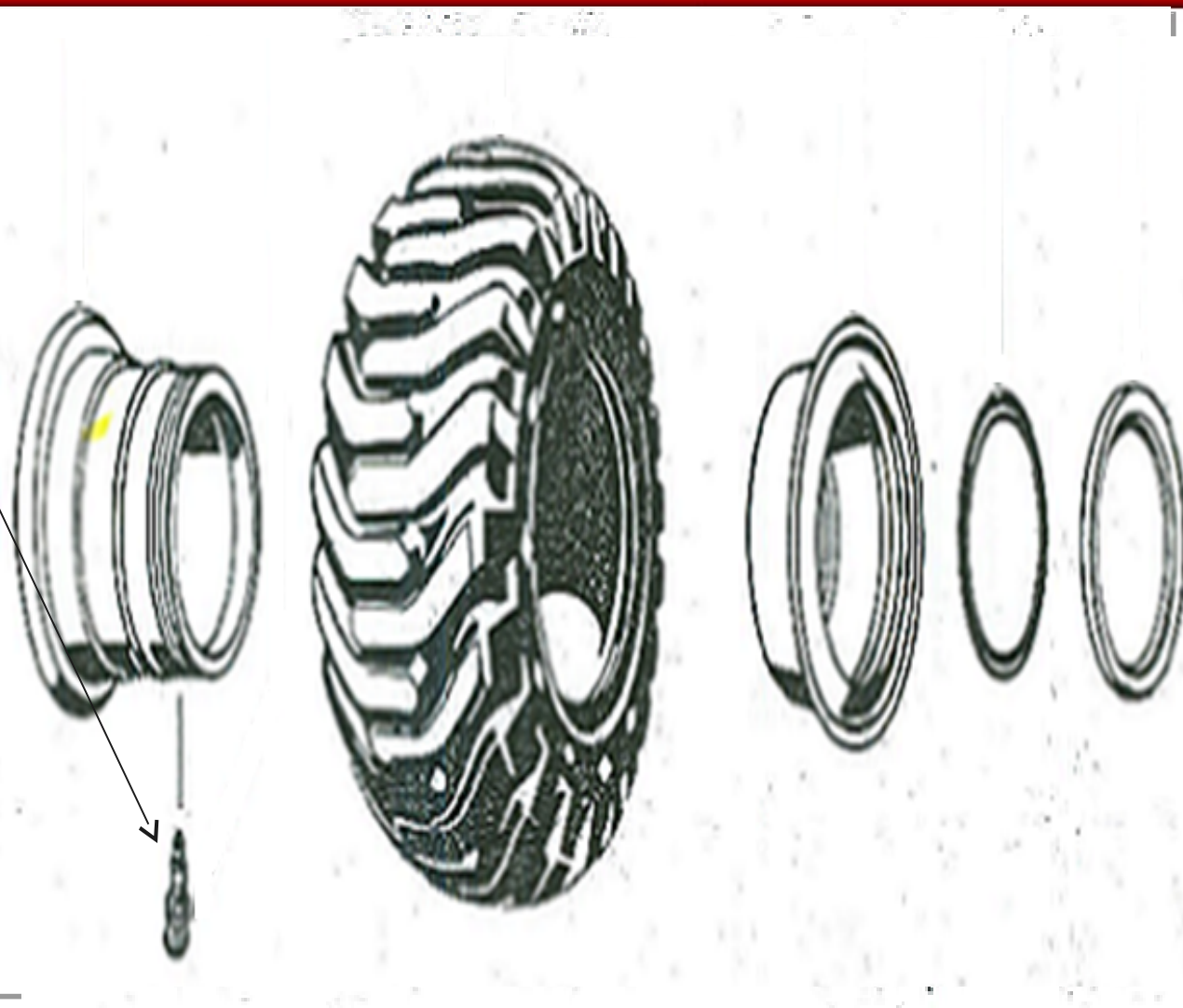




COMPONENTS / PARTS



2. Air Valve

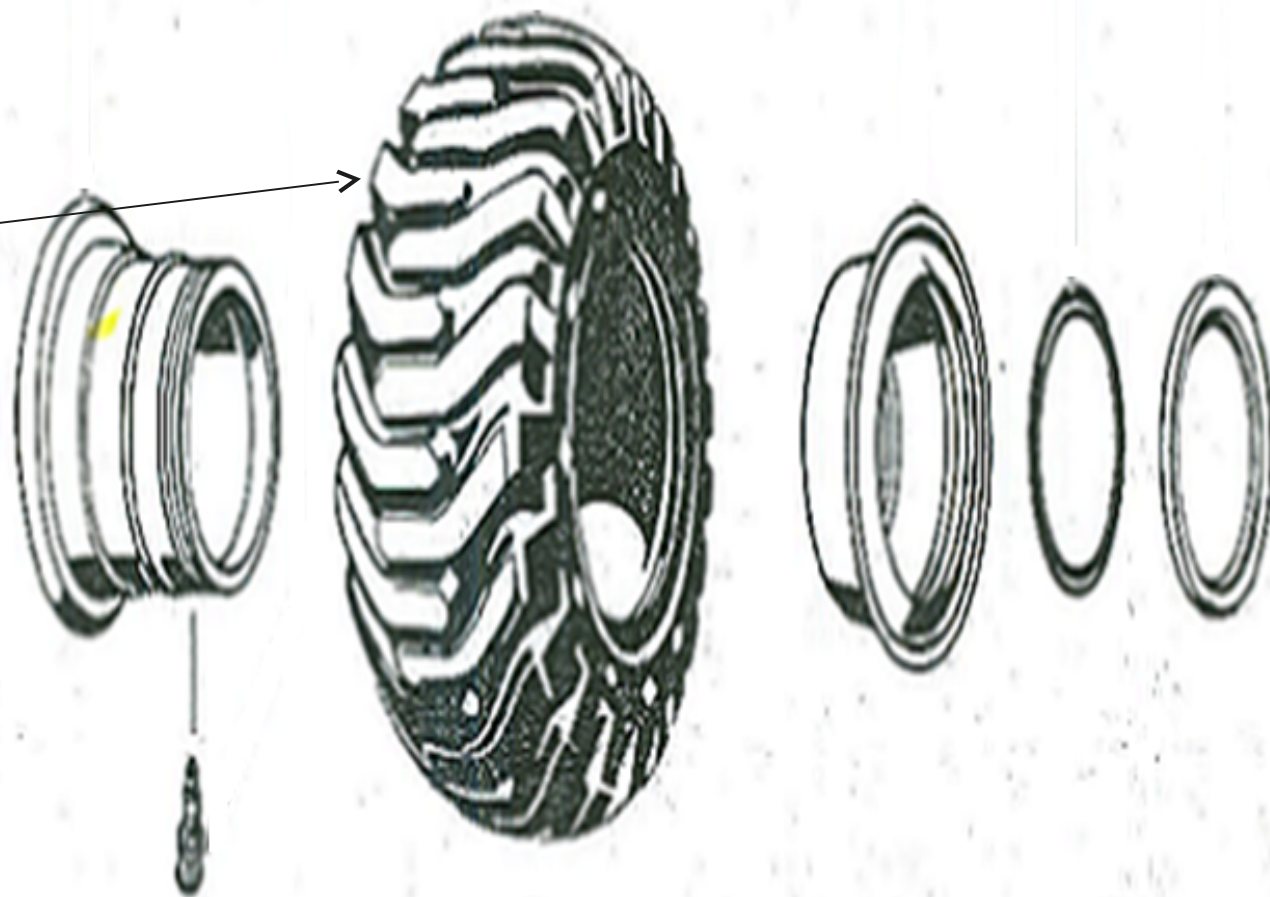




COMPONENTS / PARTS



3. Tire

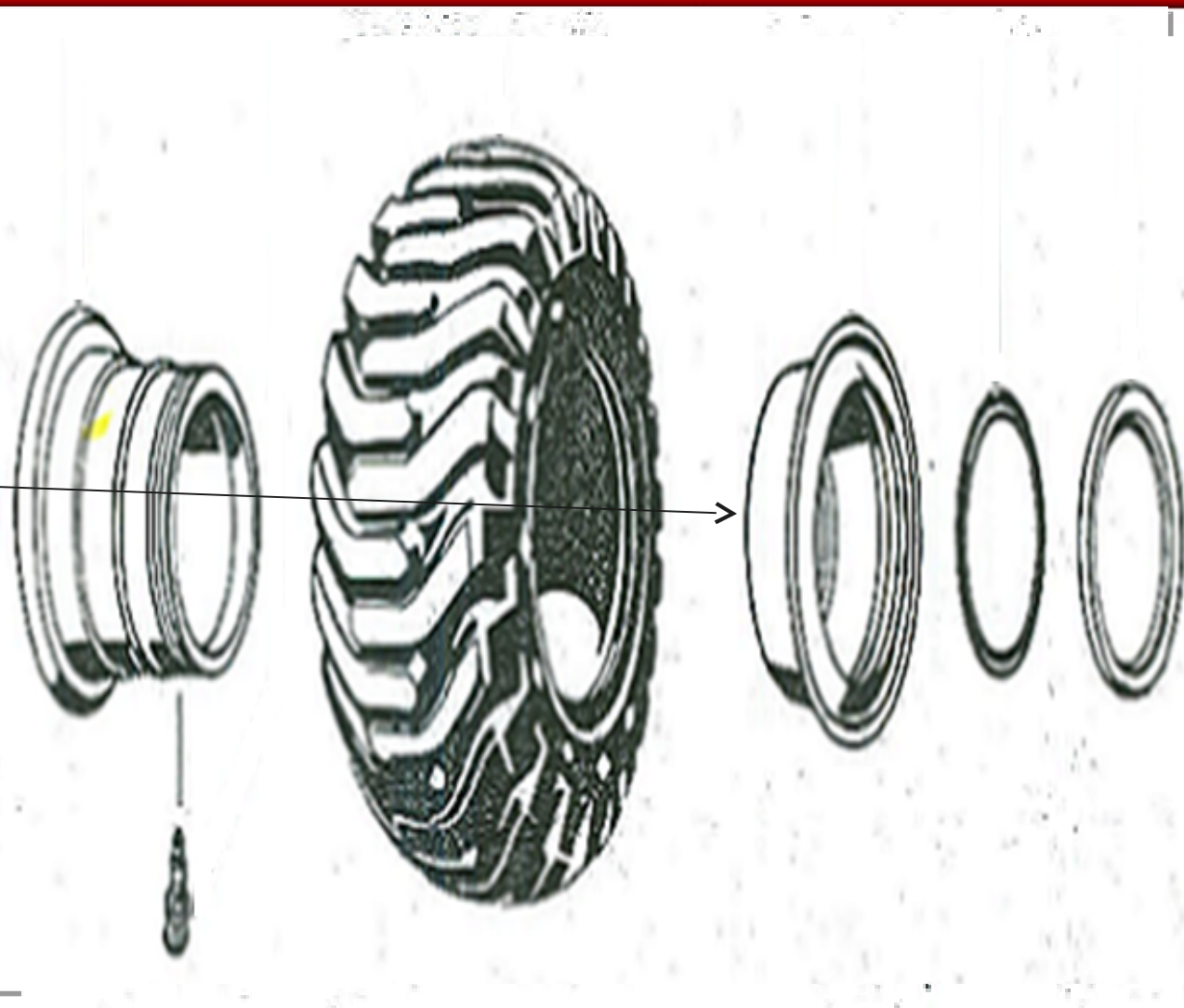




COMPONENTS / PARTS



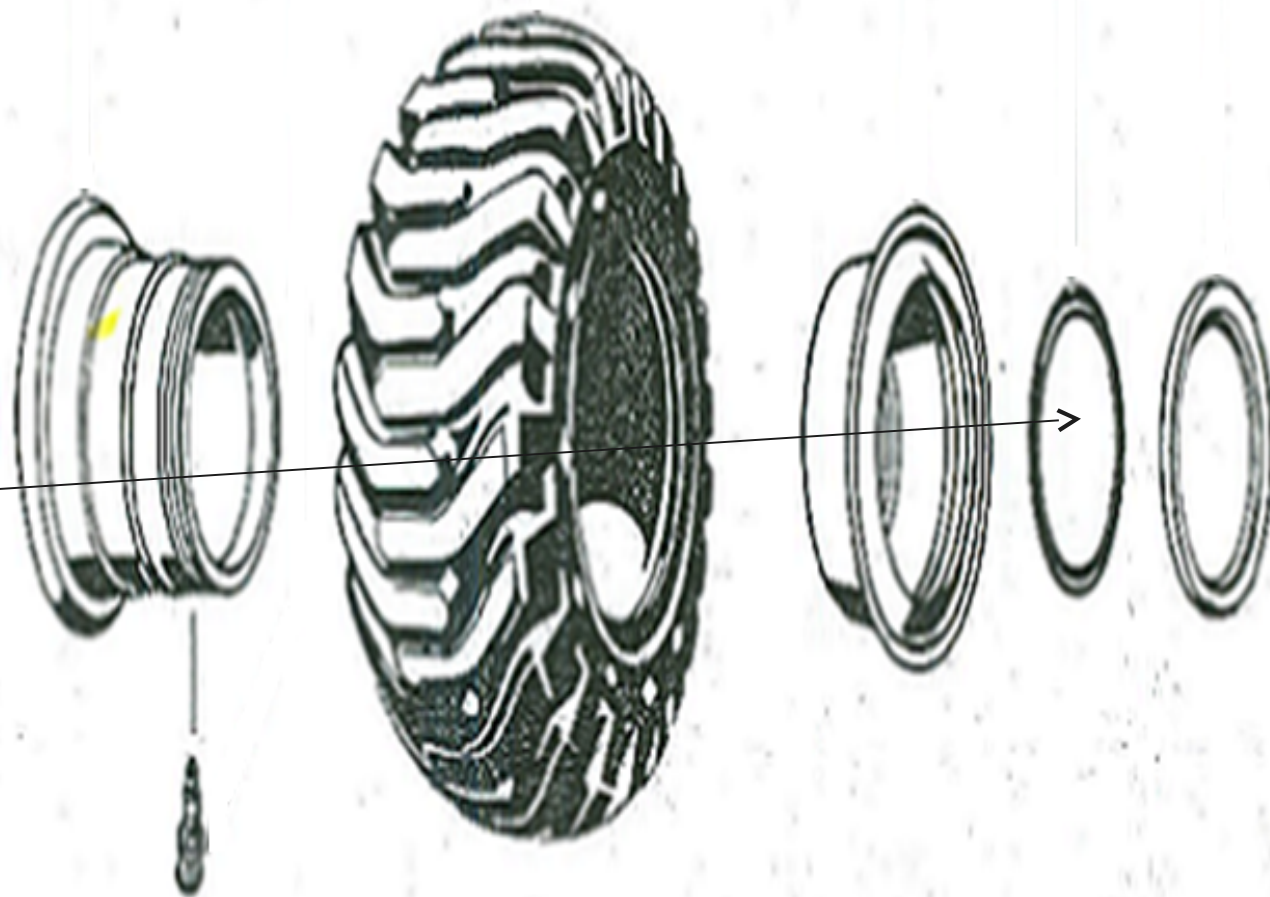
4. Split Rim





COMPONENTS / PARTS

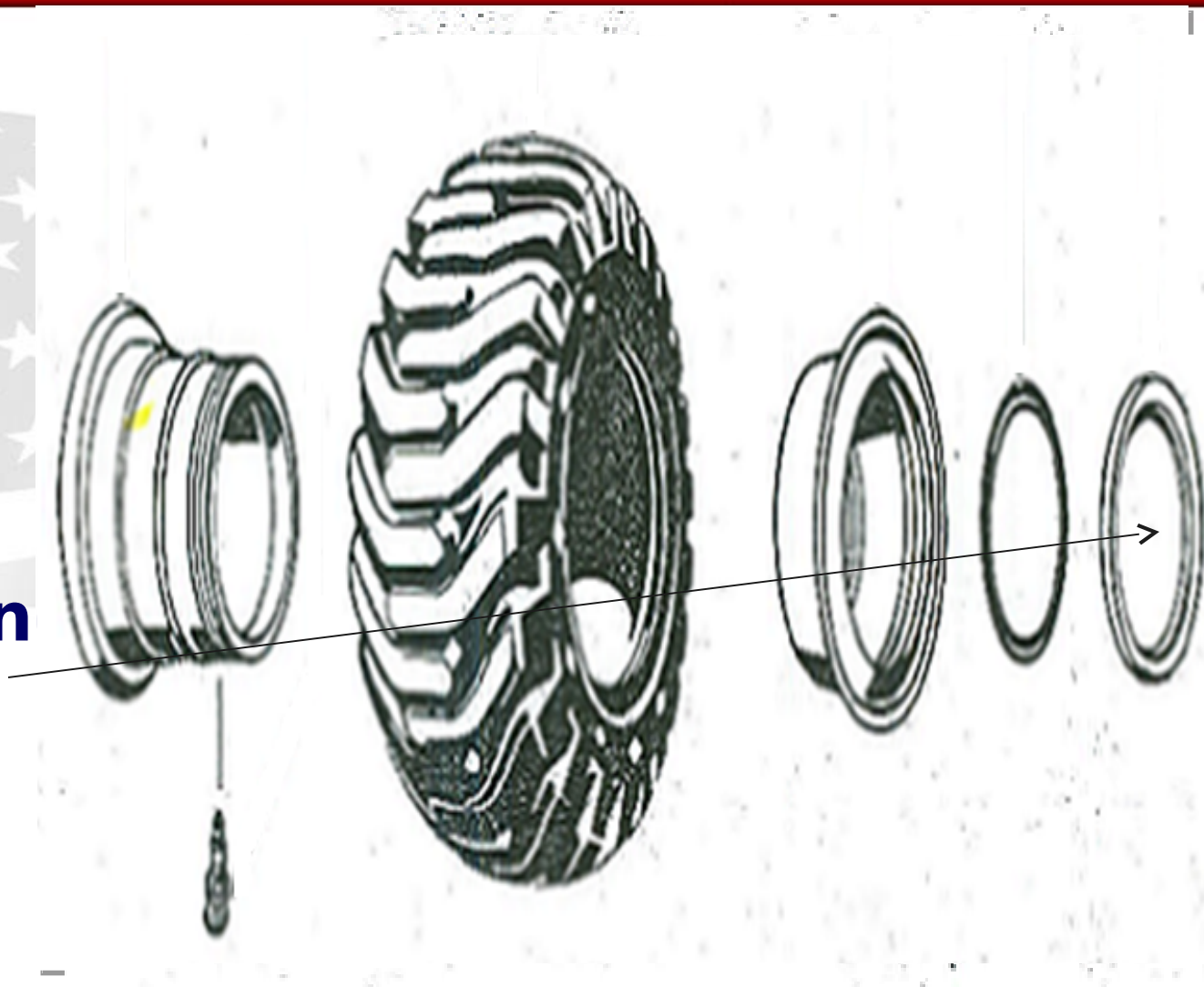
5. O-Ring





COMPONENTS / PARTS

6. Snap Rin





QUESTIONS

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How Many Components / Parts
Make up the Multi-Piece Rim?

Six. They are the Rim, Air Valve,
Tire, Split Rim, O-Ring and Snap
Ring.



TOOLS / MATERIALS



- **Tire Spoon(s)**
- **Tire Iron**
- **Sledge Hammer**
- **Air Compressor**
- **Tire Cage** (10ft Stand Off)
- **Repair Kit**

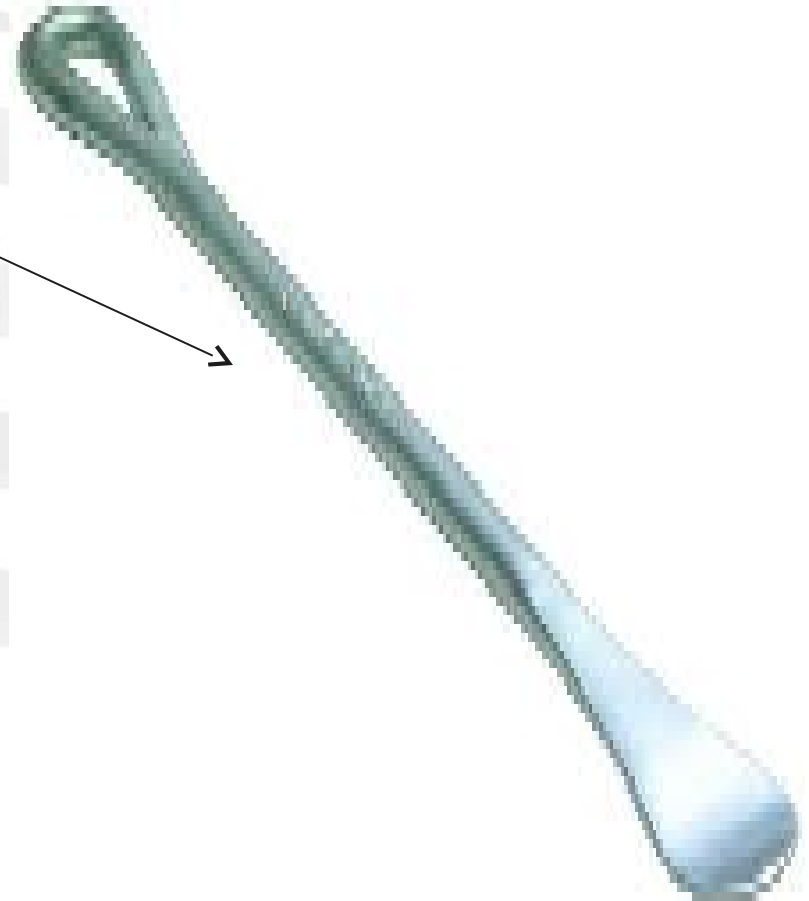




TOOLS / MATERIALS



- **Tire Spoon(s)**





TOOLS / MATERIALS



- **Tire Iron**





TOOLS / MATERIALS



- **Sledge Hammer**





TOOLS / MATERIALS



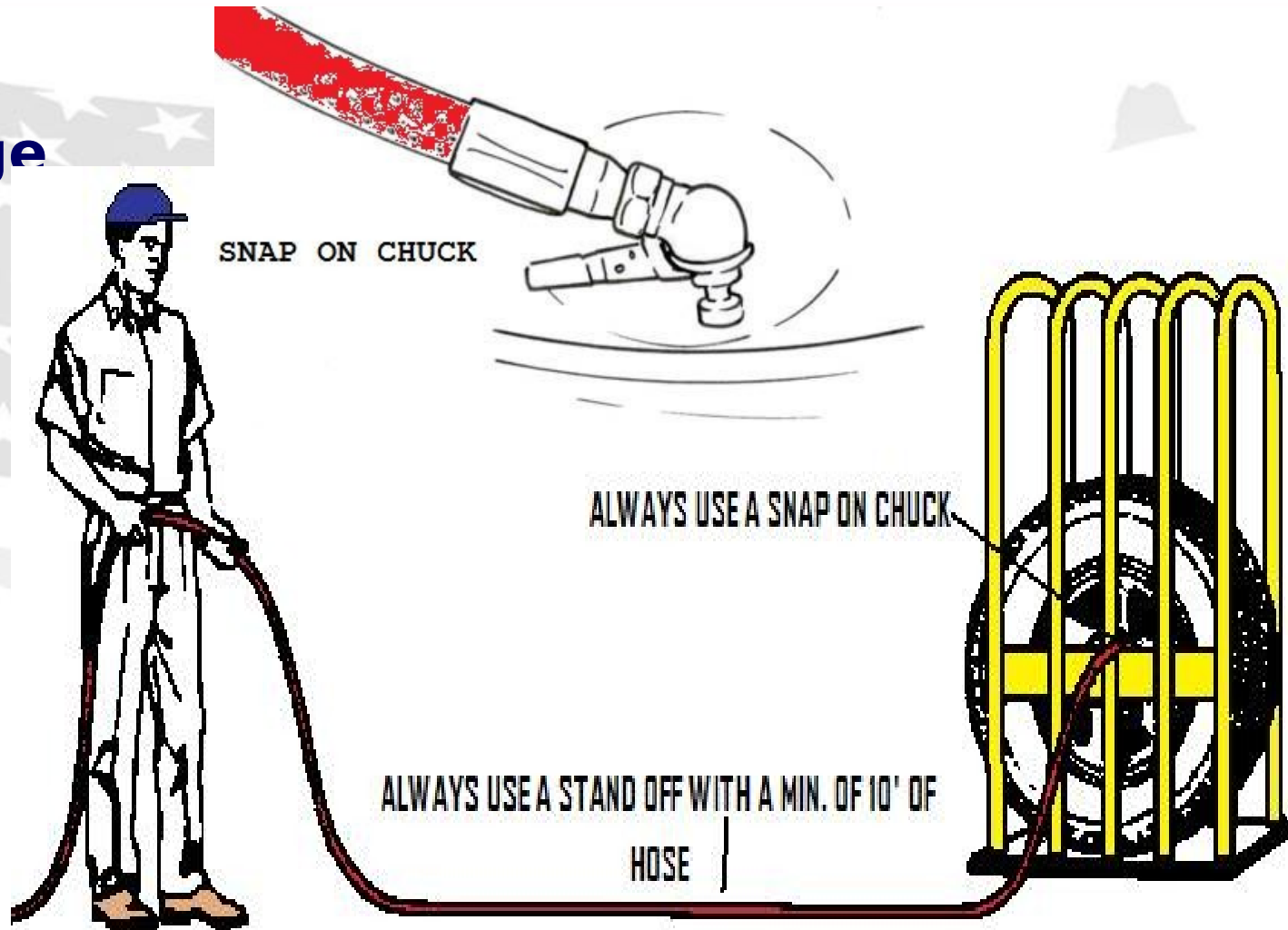
- **Air Compressor**





TOOLS / MATERIALS

- Tire cage





TOOLS / MATERIALS



- **Repair Kit**





QUESTIONS?



Name common tools used when performing maintenance on a multi-piece rim?

Tire Spoon, Tire Iron, Sledge Hammer, Air Compressor, Air Hose, Tire Cage and Repair Kit.



BREAK



MULTI-PIECE RIM



- DEMOUNTING
- RIM MAINTENANCE
- MOUNTING



MULTI-PIECE RIM

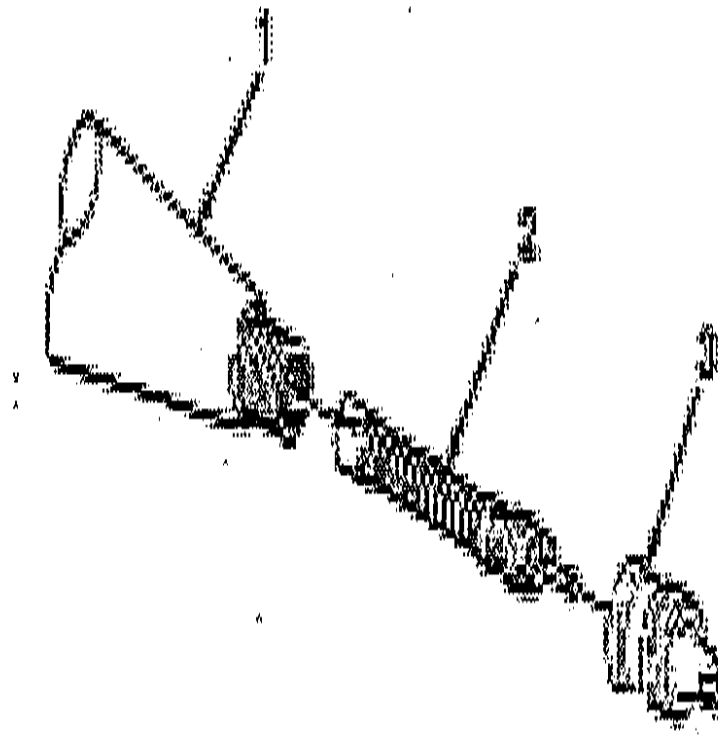


DEMOUNTING



STEP 1

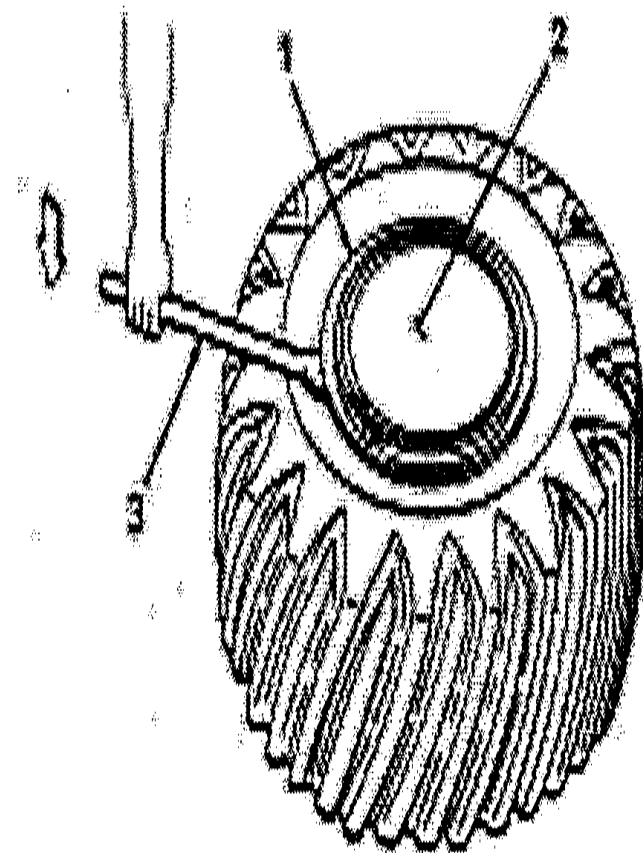
- Remove cap (3)
- Valve core (2)
- Valve stem (1)





STEP 2

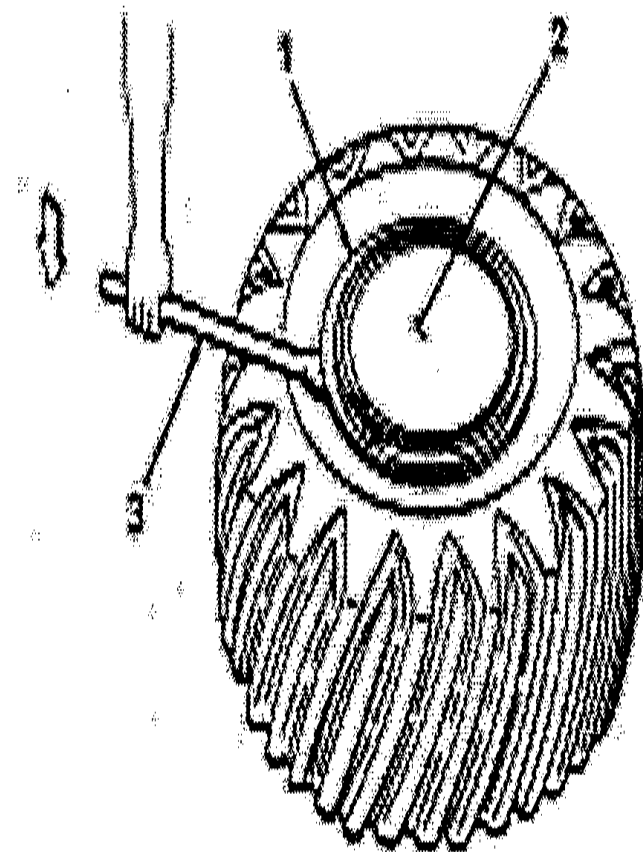
- Loosen outer tire bead from ring flange (1) by inserting a curved bead breaker tire iron (3) between tire bead and side ring flange.





STEP 3

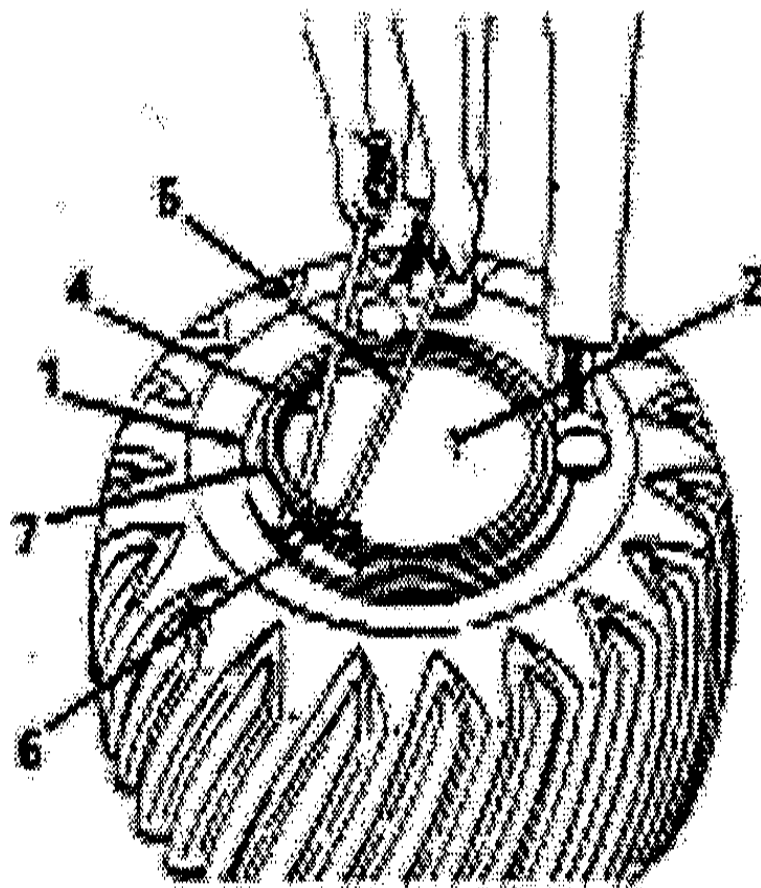
- Work progressively around rim (2), rotating curved bead breaker tire iron (3) down until outer tire bead is free of ring flange (1).





STEP 4

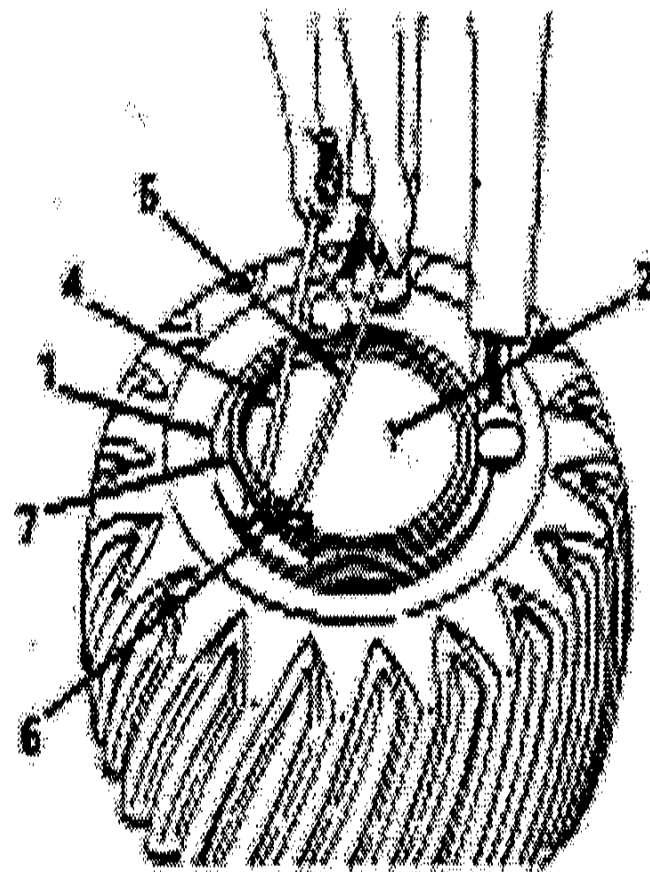
- Force side ring flange (1) down enough to clear lock ring (7).





STEP 5

- Insert lock ring tire iron (5) into prying notch (6) and work lock ring (7) partly out of gutter rim (2).

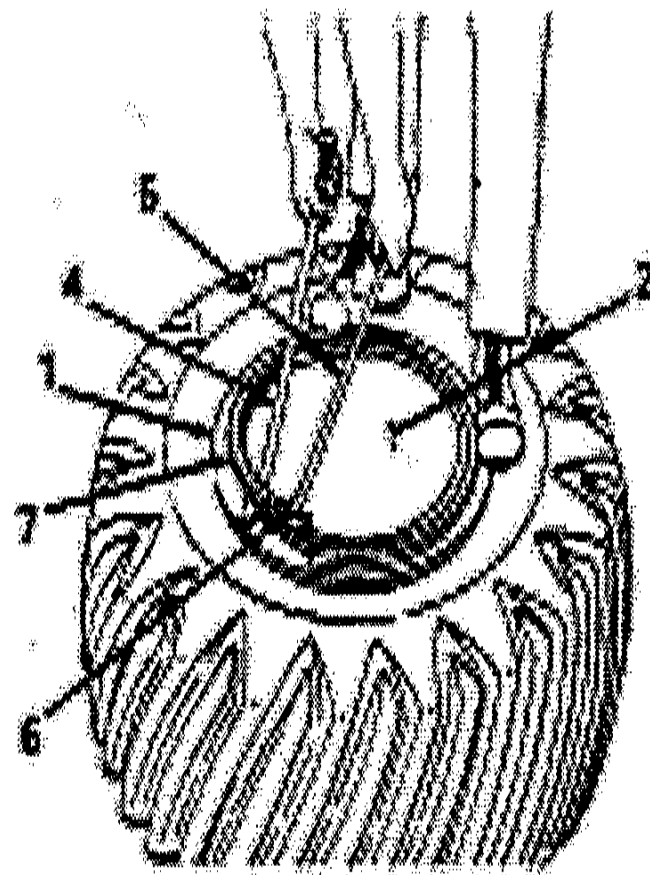




STEP 6



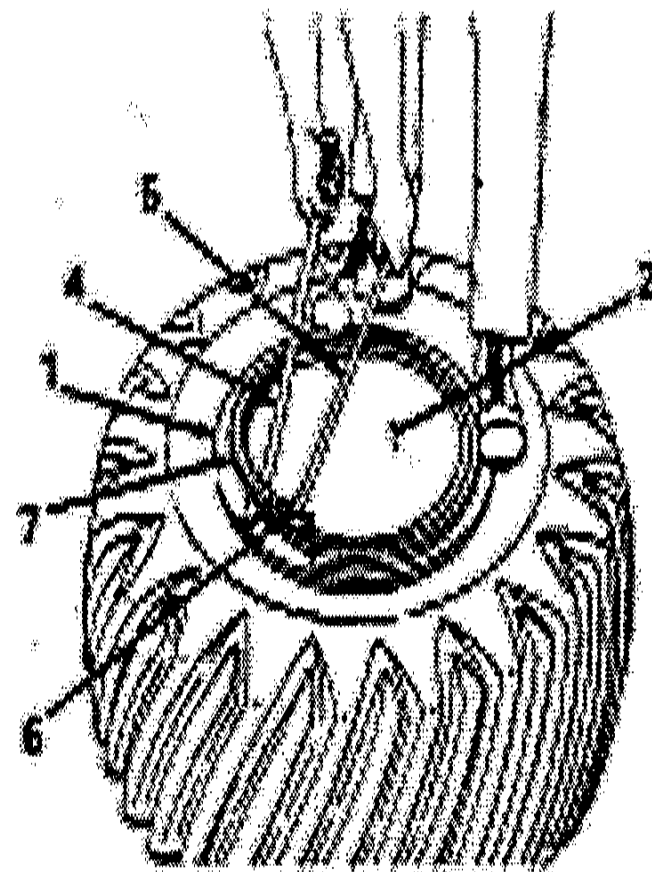
- Insert curved flat tire iron (4) between lock ring (7) and rim (2).





STEP 7

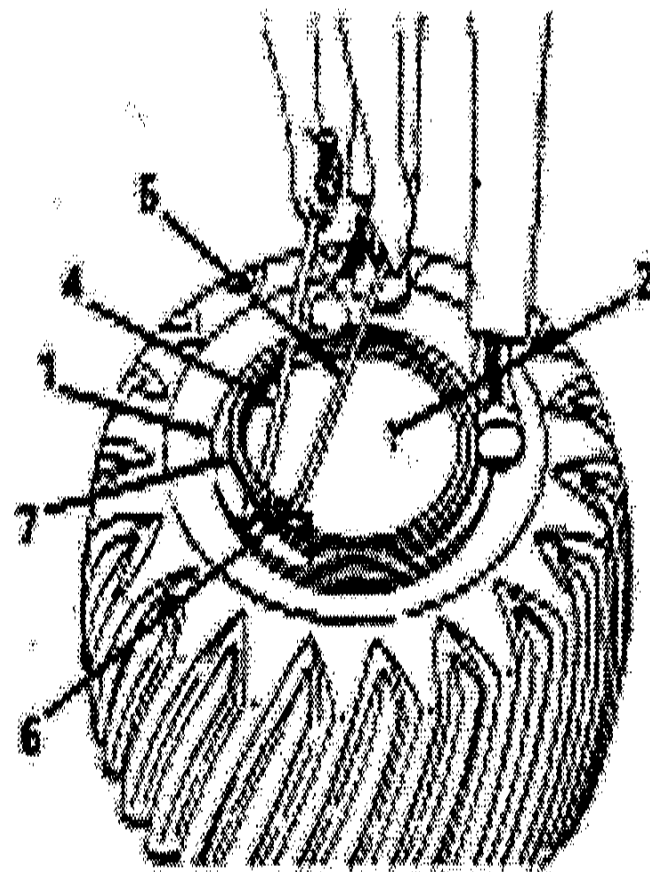
- Work both curved flat tire iron (4) and lock ring tire iron (5) progressively around rim (2), removing lock ring (7).





STEP 8

- With lock ring (7) removed, force side ring flange (1) down and remove the O-ring.

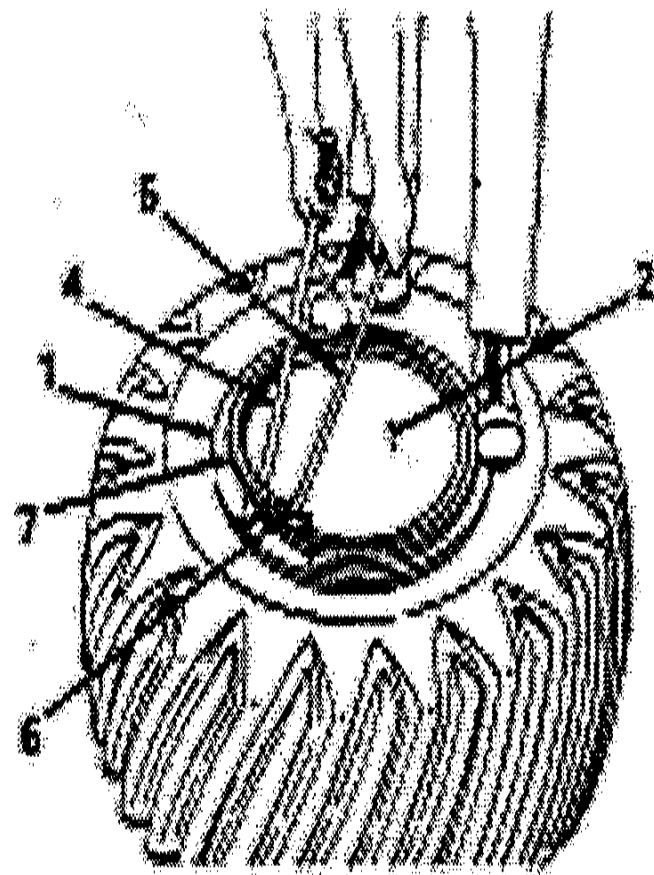




STEP 9



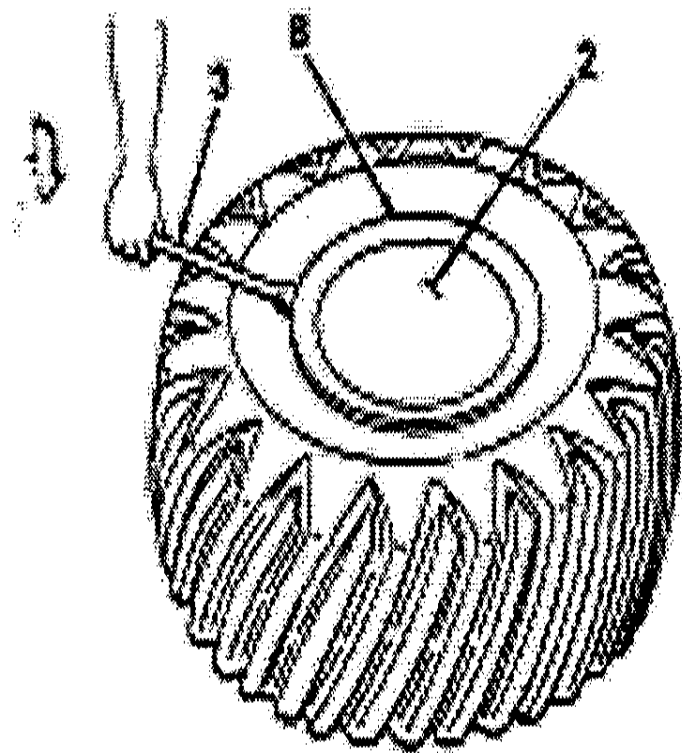
- Slide ring flange (1) straight up and off the rim (2).





STEP 10

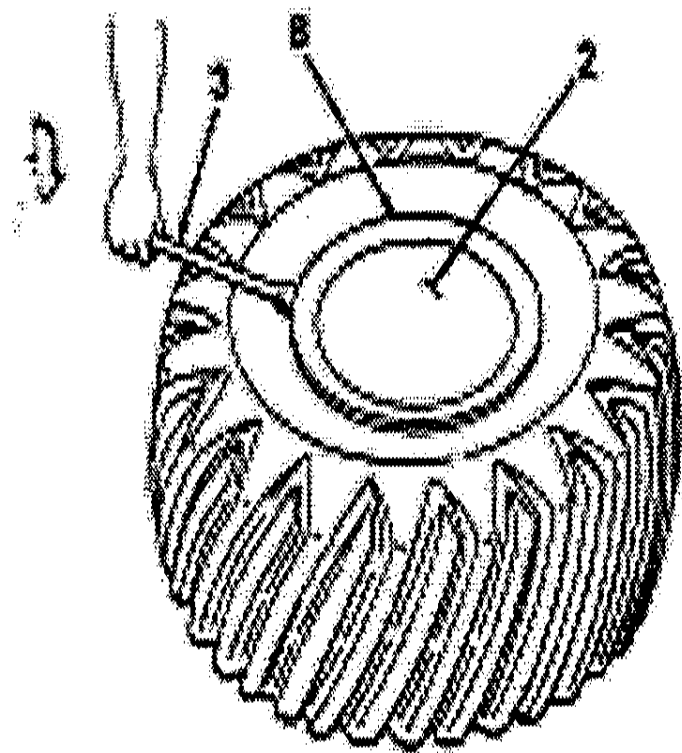
- Turn tire and rim (2) over and loosen the inner tire bead from inner rim flange (8) by inserting a curved bead breaker tire iron (3).





STEP 11

- Work progressively around rim (2), rotating curved bead breaker tire iron (3) down until tire bead is completely free of the rim.





QUESTIONS?



MULTI-PIECE RIM



BREAK



MULTI-PIECE RIM



RIM MAINTENANCE



RIM MAINTENANCE



- Inspect the rim, lock ring and flanges for damage and/or abnormal wear.



RIM MAINTENANCE



- Inspect the rim components for cracks, slits and tears.



RIM MAINTENANCE



- Remove any rust, oil, and tire and rim lubricant residue from rim.



MULTI-PIECE RIM

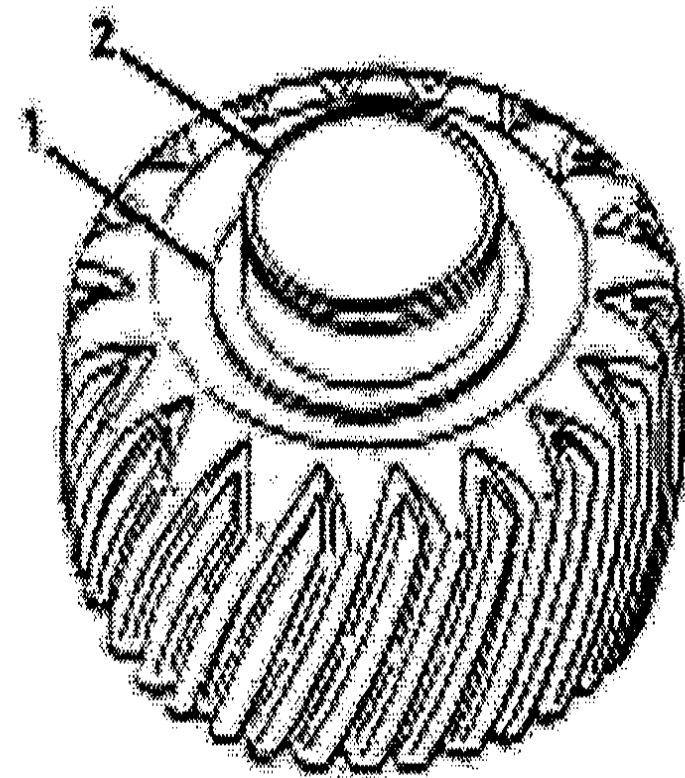


MOUNTING



STEP 1

- Place rim (2) flat on floor, lubricate beads on tire with tire and rim lubricant and place tire completely on rim.

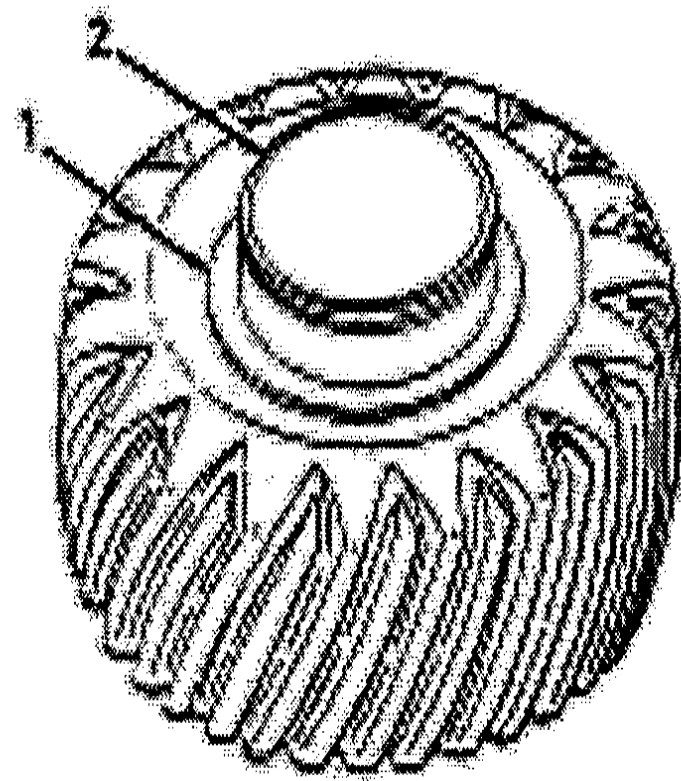




STEP 2



- Slide side ring flange (1) down onto rim (2) and under the bead of the tire.

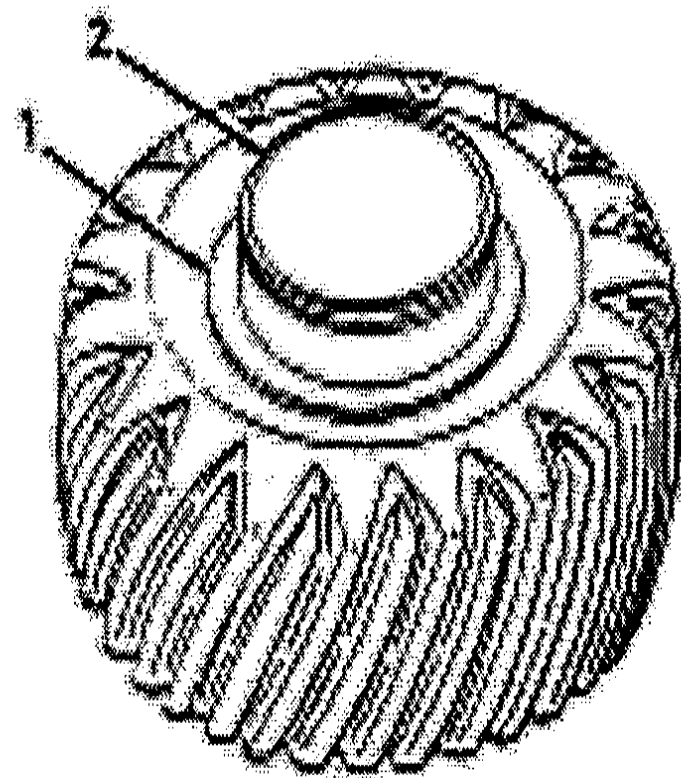




STEP 3



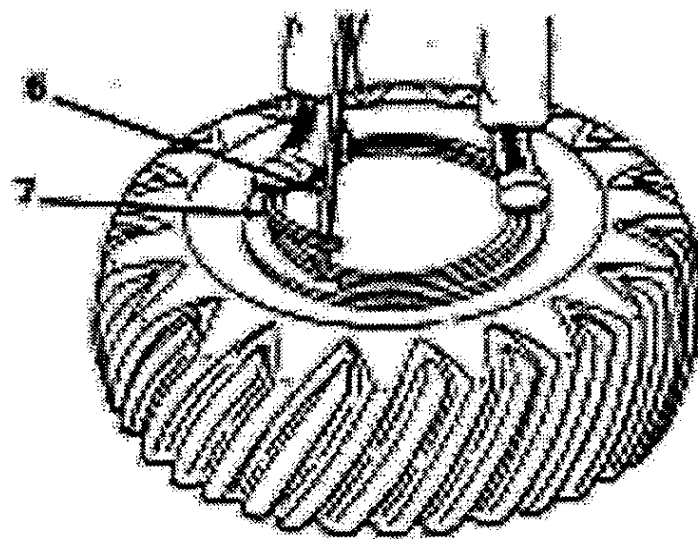
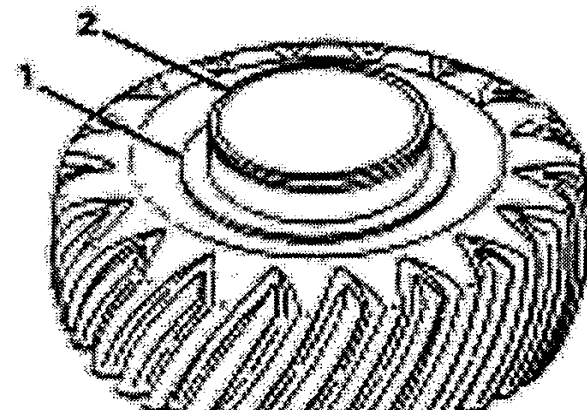
- Force side ring flange (1) down past gutter of rim (2) and install the O-ring in groove of the rim.





STEP 4

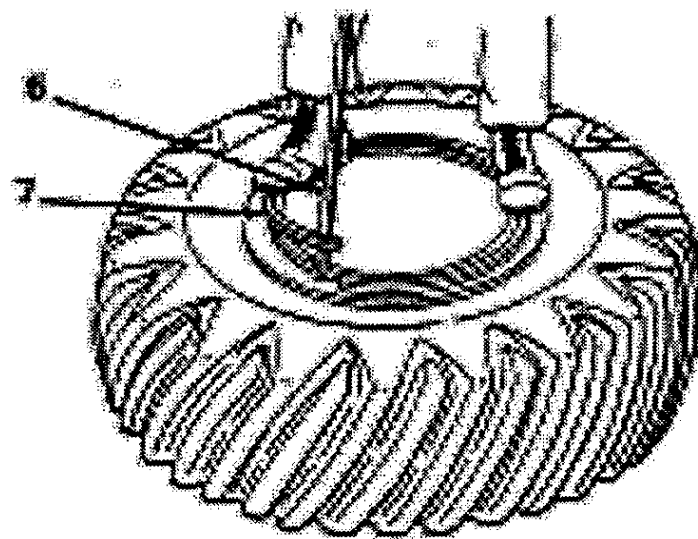
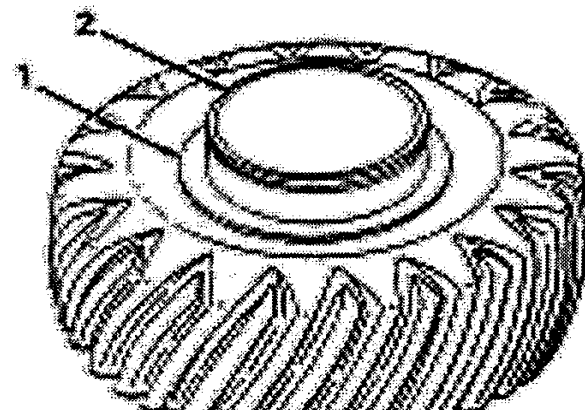
- Holding side ring flange (1) down past the gutter of rim (2) place the end of the lock ring (7) without prying notch into gutter.





STEP 5

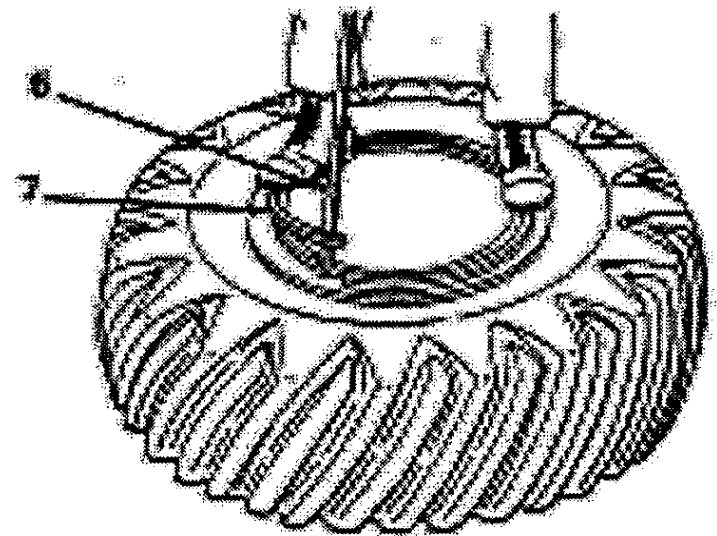
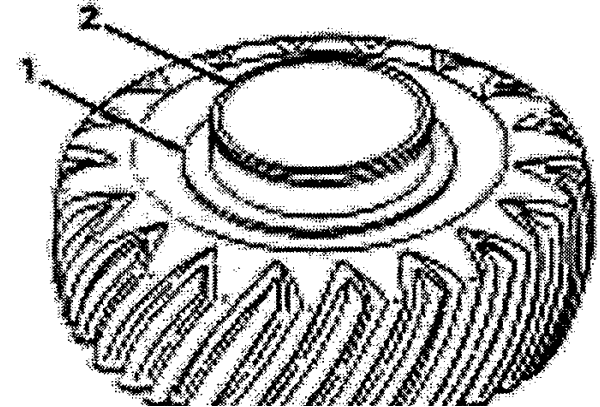
- Working around the rim (2) work lock ring (7) over the edge of the rim with lock ring tire iron (5) and step on lock ring forcing it into the gutter of the rim.





STEP 6

- Ensure the O-ring is properly installed and guide the side ring flange (1) up over the O-ring and into the lock ring (7).





STEP 7



- Inspect all rim components to ensure that they are properly seated. Place the rim and tire assembly in a tire cage.



STEP 8



- Using a pneumatic tire hose with an in-line inflator gage, inflate the tire to 40 psi maximum to seat both tire beads.



STEP 8



- Both tire beads should seat before reaching 40 psi. If the tire beads fail to seat, deflate the tire, determine the cause and take corrective action. If needed add additional tire and rim lubricant and repeat.



STEP 9



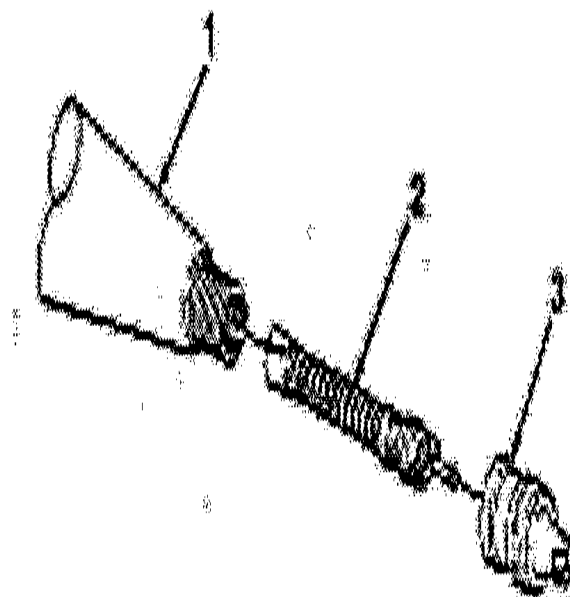
- Visually inspect all rim components to ensure that they are properly seated and allow the tire to deflate.



STEP 10



- Install the valve core (2) into valve stem (1).





STEP 11



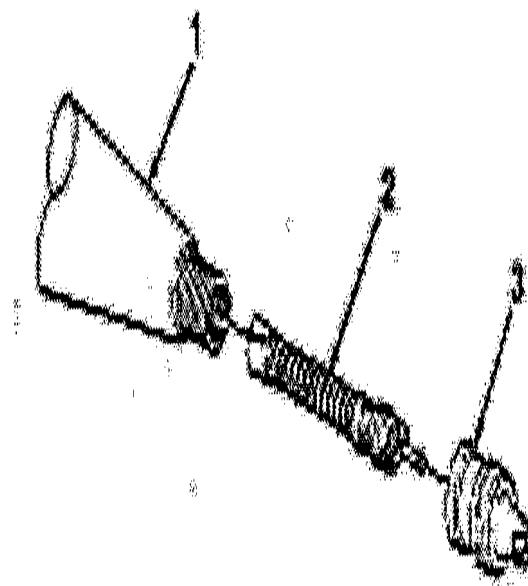
- Inflate the tire to the normal operating pressure (see applicable Equipment TM for proper psi).
Visually inspect all rim components to ensure they are seated.



STEP 12



- Install the valve cap (3) onto the valve stem (1) finger tight.





STEP 13



- Remove the rim and tire assembly from the tire cage.



QUESTIONS?



When performing rim maintenance what are you checking for when inspecting the rim components?

You are inspecting the rim components for cracks, slits, and tears.



SUMMARY



- Components / parts
- Tools and Materials
- Dismounting the Multi-Piece Rim
- Rim Maintenance
- Mounting the Multi-Piece Rim



BREAK



10min break